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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **ALEXANDER  
BIETSCH ET AL.**

Serial No.: **10/787,476**

Filed: **26 FEBRUARY 2004**

For: **SYSTEM, METHOD, AND  
APPARATUS FOR MULTILEVEL UV  
MOLDING LITHOGRAPHY FOR AIR  
BEARING SURFACE PATTERNING**

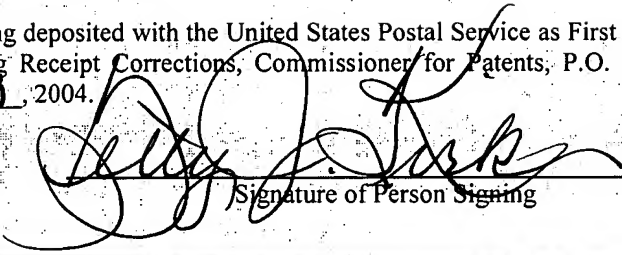
§ Attorney Docket No. **HSJ920030074US1**  
§  
§  
§ Examiner: **UNKNOWN**  
§  
§  
§ Art Unit: **1763**  
§  
§  
§

**REQUEST FOR CORRECTED FILING RECEIPT**

O.I.P.E. – Filing Receipt Corrections  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants hereby request that a Corrected Filing Receipt be issued for the above-identified patent application. Please amend the Filing Receipt as follows:

CERTIFICATE OF MAILING 37 CFR 1.8	
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to O.I.P.E. – Filing Receipt Corrections, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December <b>23</b> , 2004.	
Betty J. Kirk	
Type Name of Person Signing	Signature of Person Signing

HSJ920030074US1

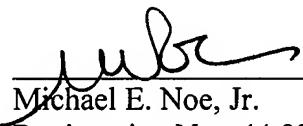
It is hereby requested that a correction be made under the caption "**Applicant(s)**" on the face of the Filing Receipt. The Applicant, Alexander Bietsch's country is incorrectly cited as "GERMANY" when in fact, Applicant, Alexander Bietsch's country is:-- **SWITZERLAND**-- . Please correct the Filing Receipt to reflect the correct Applicant, Alexander Bietsch's country, which is:

**--SWITZERLAND--.**

A photocopy of the Filing Receipt with the requested changes noted thereon is enclosed for reference, as well as a copy of the Response to Notice to File Missing Parts of Nonprovisional Application. Please also note that our Customer Number for this application has been changed to 48583.

No fee is believed to be required at this time; however, in the event any fees are required, please charge **Hitachi Global Storage Technologies' Deposit Account No. 50-2587.**

Respectfully submitted,

  
\_\_\_\_\_  
Michael E. Noe, Jr.  
Registration No.: 44,975  
BRACEWELL & PATTERSON, L.L.P.  
P.O. Box 61389  
Houston, Texas 77208-1389  
512-472-7800

ATTORNEY FOR APPLICANT(S)



Received in the U.S.P.T.O.

In re Application of: ALEXANDER BIETSCH ET AL.

Title: SYSTEM, METHOD, AND APPARATUS FOR MULTILEVEL UV MOLDING  
LITHOGRAPHY FOR AIR BEARING SURFACE PATTERNING

Enclosed herewith:

1. Response to Notice to File Missing Parts of Nonprovisional Application with Certificate of Mailing and Request for Three Month Extension;
2. An Executed Declaration and Power of Attorney (6 pages);
3. Part 2 - return copy of Notice to File Missing Parts of Nonprovisional Application; and
4. Our return postcard

HITACHI Global Storage Technologies

Application Serial No.: 10/787,476

Filed: FEBRUARY 26, 2004

Attorney Docket No.: H5J920030074US1

Our File No.: 041131.000032

Mailed: August 17, 2004 - MEN:bk

XO: HITACHI



Bracewell & Patterson, L.L.P.  
P.O. Box 61389  
Houston, TX 77208-1389

Received in the U.S.P.T.O.

In re Application of: ALEXANDER BIETSCH ET AL.

Title: SYSTEM, METHOD, AND APPARATUS FOR MULTILEVEL UV MOLDING  
LITHOGRAPHY FOR AIR BEARING SURFACE PATTERNING

Enclosed herewith:

1. Response to Notice to File Missing Parts of Nonprovisional Application with Certificate of Mailing and Request for Three Month Extension;
2. An Executed Declaration and Power of Attorney (6 pages);
3. Part 2 - return copy of Notice to File Missing Parts of Nonprovisional Application; and
4. Our return postcard

HITACHI Global Storage Technologies

Application Serial No.: 10/787,476

Filed: FEBRUARY 26, 2004

Attorney Docket No.: H5J920030074US1

Our File No.: 041131.000032

Mailed: August 17, 2004 - MEN:bk



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ALEXANDER BIETSCH ET AL



Attorney Docket No. HSJ920030074US1

Serial No.: 10/787,476

Examiner: UNKNOWN

Filed: 26 FEBRUARY 2004

For: SYSTEM, METHOD, AND  
APPARATUS FOR MULTILEVEL UV  
MOLDING LITHOGRAPHY FOR AIR  
BEARING SURFACE PATTERNING

Art Unit: 1763

**RESPONSE TO NOTICE TO FILE MISSING PARTS  
OF NONPROVISIONAL APPLICATION**

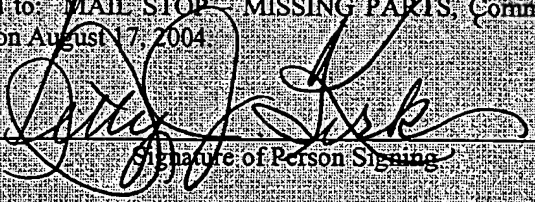
Mail Stop – Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a response in the above-identified application. Applicants respectfully request a **three-month extension of time**.

**Enclosed herewith are the following:**

- (1) Executed Declaration and Power of Attorney;
- (2) Part 2 – return copy of Notice to File Missing Parts of Nonprovisional Application; and
- (3) Our return postcard.

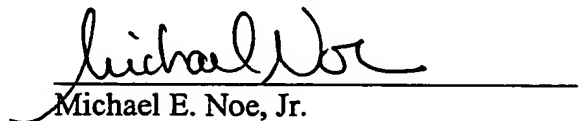
CERTIFICATE OF MAILING 37 CFR 1.8(A)	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MAIL STOP – MISSING PARTS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 17, 2004.	
Betty J. Kirk	
Type Name of Person Signing	Signature of Person Signing

Please charge \$950.00 to cover the late filing fee for a **three-month extension** of time for a non-small entity as set forth in 37 C.F.R. § 1.16(1) to **HITACHI Global Storage Technologies Deposit Account No. 50-2587**.

Please charge \$130.00 to cover the late filing fee for a Response to File Missing Parts of Nonprovisional Application for a non-small entity as set forth in 37 C.F.R. § 1.16(1) to **HITACHI Global Storage Technologies Deposit Account No. 50-2587**.

No additional fee is believed to be necessary; however, in the event that any additional fee is required to further the prosecution of this application, please charge it to **HITACHI Global Storage Technologies, Deposit Account Number 50-2587**.

Respectfully submitted,

  
Michael E. Noe, Jr.  
Reg. No.: 44,975  
BRACEWELL & PATTERSON, L.L.P.  
P.O. Box 61389  
Houston, Texas 77208-1389  
(512) 472-7800  
ATTORNEY FOR APPLICANTS



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/787,476	02/26/2004	Michael W. Chaw	HSJ920030074US1

Bracewell & Patterson, L.L.P.  
 P.O. Box 61389  
 Houston, TX 77208-1389



CONFIRMATION NO. 6992

## FORMALITIES LETTER



\*OC000000012333590\*

Date Mailed: 04/12/2004

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted***Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fee(s) required for this application is \$130 for a Large Entity

- \$130 Late oath or declaration Surcharge.

Replies should be mailed to: Mail Stop Missing Parts  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

*Handwritten signature*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> <b>(37 CFR 1.63)</b> G Declaration submitted with initial Filing <input checked="" type="checkbox"/> Declaration submitted after initial filing (surcharge required (37 CFR 1.16(e)) )	Attorney Docket No.	HSJ920030074US1
	First Named Inventor	Alexander Bietsch et al.
	Application Number	10/787,476
	Filing Date	February 26, 2004
	Examiner Name	Unknown

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEM, METHOD, AND APPARATUS FOR MULTILEVEL UV MOLDING LITHOGRAPHY FOR  
AIR BEARING SURFACE PATTERNING**

the specification of which:

G is attached hereto, or

☒ was filed on 2/26/2004 as United States Application Number 10/787,476.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.



Prior Foreign Application Numbers	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached YES NO	
			G	G	G

### POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute the application identified above and to transact all business in the United States Patent and Trademark Office connected therewith.

Douglas R. Millett, Reg. No. 31,784;  
Robert B. Martin, Reg. No. 26,945;  
Lewis L. Nunnelley, Reg. No. 42,942;  
Patrick Duncan, Reg. No. 41,721;  
Rambod Nader, Reg. No. 47,262.

James E. Bradley, Reg. No. 27,536;  
Kimberly L. Brown, Reg. No. 48,698;  
Wendy J. Davis, Reg. No. 46,393;  
Albert B. Kimball, Jr., Reg. No. 25,689;  
Michael E. Noe, Jr., Reg. No. 44,975;  
Christopher D. Northcutt, Reg. No. 55,908;  
Constance G. Rhebergen, Reg. No. 41,267;  
Ben Tobor, Reg. No. 27,760; and  
Jeffrey S. Whittle, Reg. No. 36,382

Direct all correspondence to:

**BRACEWELL & PATTERSON, L.L.P.**

**Customer No. 35975**

**P.O. BOX 61389**

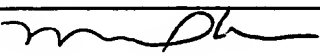
**HOUSTON, TX 77208-1389**

**Telephone: 512.472.7800**

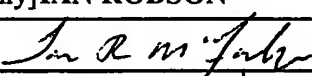
**Fax: 512.472.9123**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>NAME OF FIRST INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>ALEXANDER</b>		Family Name or Surname: <b>BIETSCH</b>	
Inventor's Signature: <i>Alexander Bietsch</i>		Date: <i>July 21, 2004</i>	
Residence: City:	State:	Country:	Citizenship: <b>GERMAN</b>
Mailing Address: <b>Burain 2, 8803 Rueschlikon</b>			
City:	State:	ZIP	Country: <b>SWITZERLAND</b>

<b>NAME OF SECOND INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>MICHAEL W.</b>		Family Name or Surname: <b>CHAW</b>	
Inventor's Signature: 		Date: <b>6/15/04</b>	
Residence: City:	State:	Country:	Citizenship: <b>USA</b>
Mailing Address: <b>2375 Westgate Avenue</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95125</b>	Country: <b>USA</b>

<b>NAME OF THIRD INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>ASHOK</b>		Family Name or Surname: <b>LAHIRI</b>	
Inventor's Signature:		Date:	
Residence: City:	State:	Country:	Citizenship: <b>GERMANY</b>
Mailing Address: <b>Am Eiskeller 73, 55126 Mainz</b>			
City:	State:	ZIP:	Country: <b>GERMANY</b>

<b>NAME OF FOURTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>IAN ROBSON</b>		Family Name or Surname: <b>McFADYEN</b>	
Inventor's Signature: 		Date: <b>6/16/04</b>	
Residence: City:	State:	Country:	Citizenship: <b>UNITED KINGDOM</b>
Mailing Address: <b>996 Burlwood Drive</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95120</b>	Country: <b>USA</b>

<b>NAME OF SECOND INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>MICHAEL W.</b>		Family Name or Surname: <b>CHAW</b>	
Inventor's Signature:			Date:
Residence: City:	State:	Country:	Citizenship: <b>USA</b>
Mailing Address: <b>2375 Westgate Avenue</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95125</b>	Country: <b>USA</b>

<b>NAME OF THIRD INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>ASHOK</b>		Family Name or Surname: <b>LAHIRI</b>	
Inventor's Signature: <i>Ashok Lahiri</i>			Date: <i>7/30/04</i>
Residence: City: <i>Cupertino</i>	State: <i>CA</i>	Country: <i>USA</i>	Citizenship: <i>USA</i> <b>GERMANY</b>
Mailing Address: <del>Am-Eiskeller 73, 55126 Mainz</del> <i>11842 Placer Spring Ct.</i>			
City: <i>Cupertino</i>	State: <i>CA</i>	ZIP: <i>95014</i>	Country: <b>GERMANY</b>

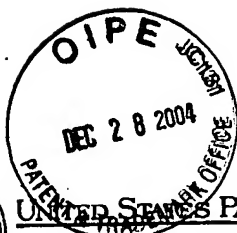
<b>NAME OF FOURTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>IAN ROBSON</b>		Family Name or Surname: <b>McFADYEN</b>	
Inventor's Signature:			Date:
Residence: City:	State:	Country:	Citizenship: <b>UNITED KINGDOM</b>
Mailing Address: <b>996 Burlwood Drive</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95120</b>	Country: <b>USA</b>

<b>NAME OF FIFTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: first and middle [if any] <b>BRUNO</b>		Family Name or Surname: <b>MICHEL</b>	
Inventor's Signature: <i>Bruno Michel</i>		Date: <i>7/21/04</i>	
Residence: City:	State:	Country:	Citizenship: <b>SWITZERLAND</b>
Mailing Address: <b>Oberhusstrasse 28, CH 8134 Adliswil</b>			
City:	State:	ZIP:	Country: <b>SWITZERLAND</b>

<b>NAME OF SIXTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: first and middle [if any] <b>MARK C.</b>		Family Name or Surname: <b>THURBER</b>	
Inventor's Signature:		Date:	
Residence: City:	State:	Country:	Citizenship: <b>USA</b>
Mailing Address: <b>435 Allegan Circle</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95123</b>	Country: <b>USA</b>

<b>NAME OF FIFTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>BRUNO</b>		Family Name or Surname: <b>MICHEL</b>	
Inventor's Signature:			Date:
Residence: City:	State:	Country:	Citizenship: <b>SWITZERLAND</b>
Mailing Address: <b>Oberhusstrasse 28, CH 8134 Adliswil</b>			
City:	State:	ZIP:	Country: <b>SWITZERLAND</b>

<b>NAME OF SIXTH INVENTOR:</b>		G A petition has been filed for this unsigned inventor	
Given Name: (first and middle [if any]) <b>MARK C.</b>		Family Name or Surname: <b>THURBER</b>	
Inventor's Signature: <i>Mark C. Thurber</i>			Date: <b>21 July 2004</b>
Residence: <b>435 Allegan Circle</b> City: <b>San Jose</b>	State: <b>CA</b>	Country: <b>USA</b>	Citizenship: <b>USA</b>
Mailing Address: <b>435 Allegan Circle</b>			
City: <b>San Jose</b>	State: <b>CA</b>	ZIP: <b>95123</b>	Country: <b>USA</b>



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/787,476	02/26/2004	1763	1260 ✓	HSJ920030074US1 ✓	6 ✓	40 ✓	3 ✓

CONFIRMATION NO. 6992

Bracewell & Patterson, L.L.P.  
 P.O. Box 61389  
 Houston, TX 77208-1389

UPDATED FILING RECEIPT



\*OC00000013782527\*

Date Mailed: 09/13/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Alexander Bietsch, Rueschlikon, GERMANY; SWITZERLAND  
 Michael W. Chaw, San Jose, CA; ✓  
 Ashok Lahiri, Cupertino, CA; ✓  
 Ian Robson McFadyen, San Jose, CA; ✓  
 Bruno Michel, Adliswil, SWITZERLAND; ✓  
 Mark C. Thurber, San Jose, CA; ✓

## Assignment For Published Patent Application

Hitachi Global Storage Technologies Netherlands B. V.

Power of Attorney: None

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 04/10/2004

The number of your priority application, to be used for filing abroad under the Paris Convention is,  
**US10/787,476** ✓

Projected Publication Date: 09/01/2005

Non-Publication Request: No

Received Bracewell & Patterson, L.L.P.	
10/16/04	
Docket By	PL
Action	
Due Date	

LOCATELLIKADE 1  
 PARNASSUSTOREN  
 1070 AZ AMSTERDAM  
 THE NETHERLANDS



Early Publication Request: No

**Title**

System, method, and apparatus for multilevel UV molding lithography for air bearing surface patterning

**Preliminary Class**

216

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).